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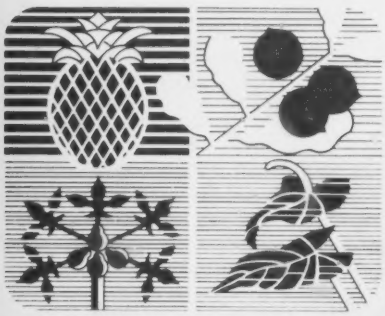

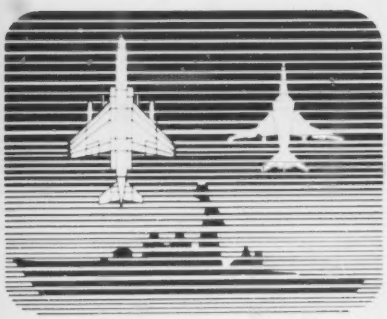

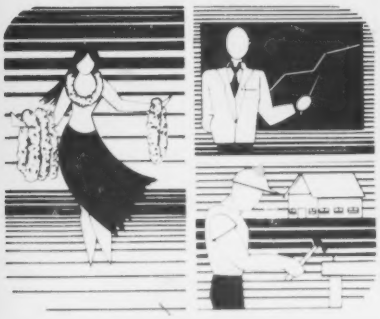

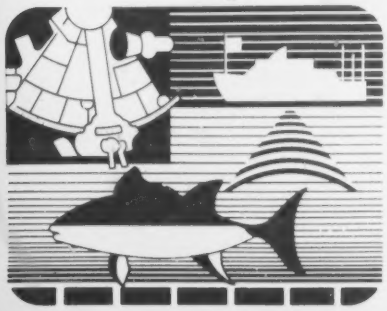

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DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

Statistical Report 219

THE POPULATION OF HAWAII, 1990

Research and Economic Analysis Division

JULY 1991

STATE OF HAWAII 1959

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DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT
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THE POPULATION OF HAWAII, 1990

Statistical Report 219

State of Hawaii
Department of Business, Economic Development & Tourism
Research and Economic Analysis Division

July 1991

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THE POPULATION OF HAWAII, 1990

This report summarizes some of the major findings of the 1990 census of Hawaii for data users seeking early access to these statistics. To date, release of such figures has been limited to geographic distributions for major demographic and housing characteristics issued in the form of press releases, printouts, and computer tapes. A future report will summarize data on census tracts. Pending the eventual publication of regular census bulletins containing additional subject-matter detail, this report is intended to provide data users with some of the more frequently requested statistics from the 1990 count.

This report contains 17 tables of information for counties, islands, districts, and urban places, as well as for the State as a whole. Information so far available is confined to data compiled from census questions asked of every person and for every housing unit regarding age, sex, race, household relationship, persons per household, tenure (owned or rented), and value of home or monthly rent. Statistics on social and economic characteristics of the population—mobility, education (enrollment and attainment), employment, and income, for example—were collected only from a sample of the population and will not be released for at least another year. Furthermore, the population counts set forth in this report are subject to possible correction for undercount or overcount. The U.S. Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, by July 15, 1991.

SUMMARY HIGHLIGHTS

Resident population of the State in 1990 was 1,108,229. Growth during the 1980-1990 decade amounted to 14.9 percent, the lowest since the 14.8 percent increase recorded in the 1930s. Even so, the Hawaii rate far surpassed the nationwide population growth of 9.8 percent. Oahu accounted for three-fourths of the 1990 State population total with 836,231 residents, followed by the Big Island (120,317), Maui County (100,504), and Kauai County (51,177). Oahu's share of the State population rose from 61.0 percent in 1940 to 81.9 percent in 1970, and

then began to decline to 79.0 percent in 1980 and 75.5 percent in 1990. Neighbor island populations, which have been decreasing since the 1930s, started to recover after 1960, and during the past ten years, far outpaced Oahu's growth. Trends since 1940 are tracked in table 1.

These totals, however, do not allow for possible net undercounts. The 1990 Post-Enumeration Survey suggests a "true" Statewide total of 1,136,000, 2.5 percent higher than the number actually counted. Nationally, the same survey indicates a "true" total 2.1percent over the published figure. Details appear in table 2.

It should be emphasized that the census covers only the resident population, that is, those persons whose usual place of residence was in the locality in question. Thus, the 1990 State total of 1,108,229 residents included 55,333 members of the armed forces stationed or homeported in the Islands; 59,935 military dependents living in Hawaii; and about 18,360 residents temporarily out of the State on business or vacation. It excluded, however, 7,045 persons overseas (mostly military personnel, civilian employees of the Department of Defense, and the dependents of both groups) whose "home State" was Hawaii. It also excluded an estimated 158,491 visitors present in Hawaii. Adding the visitors and subtracting absent residents produces a de facto population (the persons physically present on Census Day, April 1, 1990, when Census forms were returned to the Bureau for tabulation) of 1,248,360. The estimates of visitors present and residents absent, based on survey data from the Hawaii Visitors Bureau, actually refer to averages for the 12-month period centering on the census date. The components of both resident and de facto population are shown for both 1980 and 1990 in table 3.

Differences between resident and de facto totals vary greatly by islands. On Maui, for example, the 1990 de facto estimate exceeded the resident count by 39.0 percent, compared with a Statewide difference of only 12.6 percent. Maui was the fastest growing island in both categories, increasing 45.4 percent in residents and 65.3 percent in de facto population during the 1980s. County and island comparisons are shown in table 4.

The foregoing figures are, of course, limited to census dates. The Federal-State Cooperative Program for Population Estimates, which in Hawaii involves the U.S. Bureau of the Census, the State Department of Business, Economic Development & Tourism, and the State Department of Health, issues annual population estimates throughout the decade. To ensure consistency with the newly announced decennial census counts, the Hawaii State Data Center has provisionally revised the postcensal estimates to provide a more accurate intercensal series for each year at the county level (see tables 5, 6, 7 and 8).

The islands also vary greatly in population density. Statewide, the 1990 density (based on de facto population) was 75.0 persons per square kilometer or 194.3 persons per square mile. By islands, the density of persons per square mile ranged from zero on Kahoolawe and 3.2 per square mile on Niihau to 1,522.8, the highest, on Oahu (see table 9).

Small-area statistics are available for districts, urban places, census tracts, and blocks. The five counties and eight major islands in the State contain 28 districts, the basic geographic divisions first defined by the ancient Hawaiians that are still used for many analytic and administrative purposes. Although Hawaii lacks incorporated municipalities (other than the City and County of Honolulu), the Bureau of the Census has joined with the State and counties in defining 123 census designated places (CDPs), referred to in the State legislation as "cities, towns and villages." An even smaller unit is the census tract, a small, relatively homogeneous and permanent statistical area first defined in Hawaii in 1938; and the smallest of all is the block.

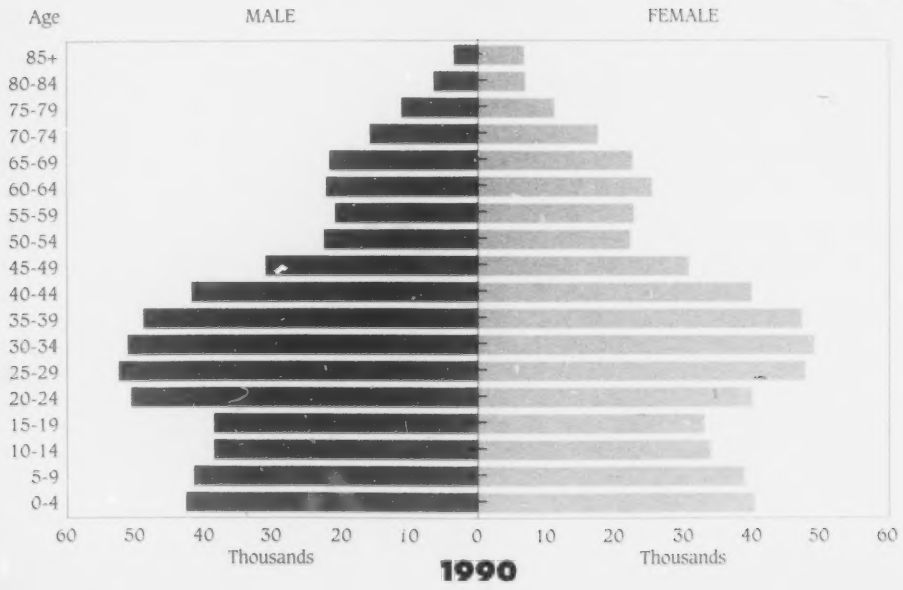
The fastest growing district in the State during the past decade was South Kohala on the Big Island which recorded an increase in resident population of 98.4 percent. Other burgeoning districts were Puna (up 76.8 percent), Hanalei (73.6 percent), North Kona (62.1 percent), and Makawao (53.7 percent). The only declines occurred in North Hilo (8.2 percent) and Kalawao (9.7 percent). District trends from 1970 to 1990 are charted in table 10.

The largest urban places (or CDPs) in Hawaii in 1990 were Honolulu (377,059 residents), Hilo (37,808), Kailua, Oahu (36,818), Kaneohe (35,448) and Waipahu (31,435). The biggest town on Maui was Kahului (16,889); on Kauai, Kapaa was the largest town (8,149); and on Moloka'i, it was Kaunakakai (2,658). Data for all 123 CDPs are listed in table 11.

Significant changes occurred during the 1980-1990 decade in age and sex composition and household structure. Although the State continued to be one of the few in the nation with more males than females, the sex ratio dropped from 105.2 males per 100 females in 1980 to 103.6 in 1990. In addition, the State's population aged noticeably: the representation of individuals under 18 years of age fell from 28.6 percent of the total population to 25.3 percent; persons 65 years and over rose from 7.9 to 11.3 percent of the total; and the median age increased by 4.3 years, from 28.3 to 32.6 years. There were fewer married-couple households, which formerly represented 63.2 percent of all households in 1980, but accounted for 59.1 percent in 1990; and more nonfamily households (persons living alone or groups of unrelated individuals), which rose from 23.1 to 26.1 percent of all households. Table 12 summarizes the State-level findings of these population characteristics.

Figure 1

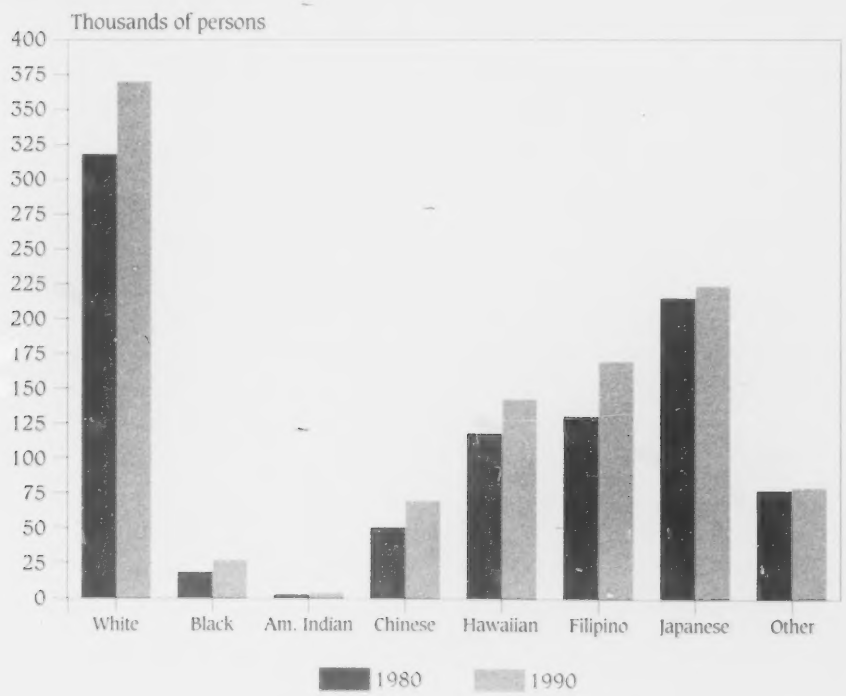
AGE DISTRIBUTION OF HAWAII RESIDENTS: 1980 AND 1990



The State continued as a multi-racial society, containing large contingents of all major ethnic groups. In 1990, 61.8 percent identified themselves as Asians or Pacific Islanders; 33.4 percent as White, and the remainder as Black, American Indian, or other races. The Census Bureau's classification system unfortunately provided no category for persons of mixed ancestry, therefore, classification was made according to either self-identification (the race that the individual identified himself as), race of the mother, or the Bureau's coding rules. The statistics on race for 1980 and 1990 appear in table 13.

Figure 2

POPULATION BY RACE, STATE OF HAWAII: 1980 AND 1990



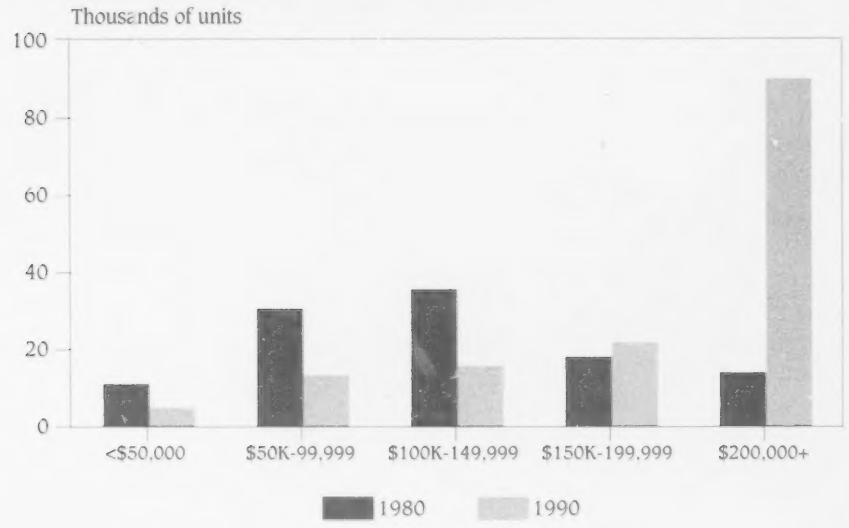
There were 356,267 households counted in the State in 1990 with an average size of 3.01 persons, the second highest average household size (after Utah) in the nation. Kauai County and Honolulu reported household sizes of 3.10 and 3.02, respectively, which exceeded the State average, and the average on Maui was very close to the State figure with 2.99 persons per household, followed by Hawaii County (2.86) and Kalawao County on Molokai (1.37). Island statistics for both 1980 and 1990 are shown in table 14.

The increase in the resident population of 143,538 persons from 1980 to 1990 was attributed to 168,523 births, 56,375 deaths, and a net in-migration of 31,390 persons. Unless these gross totals are disaggregated by military status, they are misleading because members of the armed forces and their dependents accounted for 20.7 percent of all births in the State, 2.6 percent of the deaths, and most of the out-migrants, the latter consisting mostly of babies born here who were moved a few years later to their parents' new posts. If the analysis is limited to the civilian population, in-migrants outnumbered out-migrants by 71,338 persons, representing 47.8 percent of the growth in population, and natural increase in population (live births less deaths) accounted for 52.7 percent of overall growth. A heavy net in-migration of civilians was evident for all major islands. Detailed breakdowns are given in tables 15 and 16.

Housing statistics revealed several significant trends. The owner-occupancy rate rose only slightly, from 51.7 percent in 1980 to 53.9 percent in 1990, while the homeowner vacancy rate decreased from 1.4 percent to 0.8 percent. Fully 15.9 percent of all occupied units reported more than one person per room, indicating slightly greater crowding since 1980 when the ratio was 15.3 percent. Housing was also far more expensive as the median value of single family owner-occupied units rose from $118,100 in 1980 to $245,300 in 1990, and the median monthly contract rent went from $271 to $599. Selected housing statistics are cited in table 17.

Figure 3

NUMBER OF OWNER-OCCUPIED UNITS, BY VALUE, STATE OF HAWAII: 1980 AND 1990



The rental vacancy rate had decreased from 10.3 percent in 1980 to 5.4 percent in 1990, but any 10-year comparison is rendered meaningless by changed coverage of resort condominiums. Considerable caution is essential in comparing 1980 and 1990 data on total housing stock, units in structure, and rental vacancy rates. In 1980, all resort condominium units were included in the total housing stock. Those occupied by transients were classified as "vacant, not available," while those temporarily vacant were included in the rental vacancy rate, even though not normally part of the resident rental market. In 1990, the same definitions were followed at the outset, but part way through, the enumeration rules were changed so that resort condos were thereafter disregarded rather than treated as part of the total stock. As a result, most of the condo units in transient use on Oahu and many of those on the Neighbor Islands were omitted from the housing inventory. This decision unquestionably affected both the quality and comparability of the resulting data.

TABLE 1

RESIDENT POPULATION OF COUNTIES: 1940 TO 1990

(Census counts as of April 1)

Year	State total		City & Co. of Honolulu		Hawaii County	Kauai County	Maui County 2/
	Number	Percent change 1/	Number	Percent of state			
1940.....	422,770	1.4	257,696	61.0	73,276	35,818	55,980
1950.....	499,794	1.7	353,020	70.6	68,350	29,905	48,519
1960.....	632,772	2.4	500,409	79.1	61,332	28,176	42,855
1970.....	769,913	2.0	630,528	81.9	63,468	29,761	46,156
1980.....	964,691	2.3	762,565	79.0	92,053	39,082	70,991
1990.....	1,108,229	1.4	836,231	75.5	120,317	51,177	100,504

1/ Annual rate since the preceding census, based on the formula for continuous compounding.
2/ Including Kalawao County.

Source: U.S. Bureau of the Census, decennial bulletins and releases.

TABLE 2

POST-ENUMERATION SURVEY (PES) ESTIMATES OF THE TOTAL POPULATION OF THE UNITED STATES, HAWAII AND SELECTED COUNTIES: 1990

Subject	United States	State of Hawaii	Counties over 100,000		
			Honolulu	Hawaii	Maui
Enumerated population.....	248,709,873	1,108,229	839,231	120,317	100,374
PES estimate.....	253,978,000	1,136,000	861,000	122,000	102,000
Percent net undercount.....	2.1	2.4	2.9	1.4	1.6

Source: U.S. Bureau of the Census, Release CB91-221 (June 13, 1991), tables 1 and 3.

TABLE 3

RESIDENT AND DE FACTO POPULATION, BY RESIDENCE AND MILITARY STATUS, BY COUNTIES: 1980 AND 1990

Year and type of population	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
APRIL 1, 1980						
Resident population	964,691	762,565	202,126	92,053	39,082	70,991
Armed forces	57,056	56,726	330	152	153	25
Civilians	907,635	705,839	201,796	91,901	38,929	70,966
Mil. dependents	64,023	63,649	374	142	179	53
Other civilians	843,612	642,190	201,422	91,759	38,750	70,913
Residents absent 2/	9,635	7,922	1,713	820	274	619
Visitors present 2/	97,603	67,359	30,244	7,426	7,325	15,493
De facto population	1,052,659	822,002	230,657	98,659	46,133	85,865
APRIL 1, 1990						
Resident population	1,108,229	836,231	271,998	120,317	51,177	100,504
Armed forces	55,333	55,023	310	133	151	26
Civilians	1,052,896	781,208	271,688	120,184	51,026	100,478
Mil. dependents	59,935	59,618	317	127	161	29
Other civilians	992,961	721,590	271,371	120,057	50,865	100,449
Residents absent 2/	18,360	13,854	4,506	1,993	848	1,665
Visitors present 2/	158,491	85,642	72,849	16,756	17,634	38,459
De facto population	1,248,360	908,019	340,341	135,080	67,963	137,298

1/ Includes Kalawao County (resident population 144 in 1980, 130 in 1990).

2/ Average for 12-month period centered on census date. The 1980 estimates for residents absent are thought to be understated.

Source: U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-A13 (October 1981), table 2, and Release CB91-42 (February 1991); estimates of residents absent and visitors present by the Hawaii Visitors Bureau and the Hawaii State Data Center; military status from Federal-State Cooperative Program for Population Estimates.

TABLE 4

RESIDENT AND DE FACTO POPULATION, BY COUNTIES AND ISLANDS: APRIL 1, 1980 AND 1990

County and island	Resident population			De facto population		
	1980	1990	Percent change	1980	1990	Percent change
State total	964,691	1,108,229	14.9	1,052,659	1,248,360	18.6
Counties:						
Hawaii	92,053	120,317	30.7	98,659	135,080	36.9
Maui	70,847	100,374	41.7	85,721	137,170	60.0
Kalawao	144	130	-9.7	144	128	-11.1
Honolulu	762,565	836,231	9.7	822,002	908,019	10.5
Kauai	39,082	51,177	30.9	46,133	67,963	47.3
Islands:						
Hawaii	92,053	120,317	30.7	98,659	135,080	36.9
Maui	62,823	91,361	45.4	76,829	126,992	65.3
Kahoolawe	-	-	...	-	-	...
Lanai	2,119	2,426	14.5	2,129	2,629	23.5
Molokai	6,049	6,717	11.0	6,907	7,677	11.1
Oahu 1/	762,565	836,231	9.7	822,002	908,019	10.5
Kauai	38,856	50,947	31.1	45,907	67,737	47.6
Niihau	226	230	1.8	226	226	0

1/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, except Midway (31 residents in 1980 and 24 in 1990).

Source: U.S. Bureau of the Census, *1980 Census of Population, Number of Inhabitants, Hawaii*, PC80-1-A13 (October 1981), tables 2 and 4, and 1990 Public Law 94-171 counts; Hawaii State Data Center estimates of de facto population based on Hawaii Visitors Bureau survey data on visitors present and residents absent.

TABLE 5

RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1990

[Excludes visitors present but includes residents temporarily absent]

Date	Total resident population	Armed forces 1/	Civilian population		
			All civilians	Military dependents 2/	Not military dependents
1970: April 1	769,913	55,142	714,771	61,858	652,913
July 1	771,600	53,800	717,800	57,800	660,100
1971: July 1	801,600	50,800	750,800	62,200	688,700
1972: July 1	828,300	52,000	776,400	66,200	710,100
1973: July 1	851,600	58,100	793,500	70,300	723,200
1974: July 1	868,000	57,500	810,500	68,300	742,100
1975: July 1	886,200	58,800	827,400	63,700	763,700
1976: July 1	904,200	57,800	846,400	67,000	779,400
1977: July 1	918,300	56,500	861,800	65,000	796,800
1978: July 1	931,600	58,300	873,300	61,100	812,200
1979: July 1	953,300	57,900	895,400	64,500	830,900
1980: April 1	964,691	57,056	907,635	64,023	843,612
July 1	968,500	57,900	910,600	64,100	846,500
1981: July 1	978,200	56,600	921,600	64,300	857,300
1982: July 1	994,000	54,900	939,100	66,700	872,400
1983: July 1	1,013,400	55,200	958,200	66,300	892,000
1984: July 1	1,029,100	57,300	971,800	67,100	904,700
1985: July 1	1,041,900	56,400	985,500	64,300	921,200
1986: July 1	1,054,000	58,100	995,900	66,200	929,700
1987: July 1	1,070,800	58,100	1,012,700	64,800	947,800
1988: July 1	1,085,500	56,800	1,028,700	69,900	958,800
1989: July 1	1,097,800	56,400	1,041,500	60,300	981,200
1990: April 1	1,108,229	55,333	1,052,896	59,935	992,961
July 1	1,111,800	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. They differ somewhat from corresponding figures from other sources.

2/ Dependents living in Hawaii, regardless of location of family head.

Source: Hawaii State Department of Planning and Economic Development, *Intercensal Population Estimates for Hawaii, 1940-1980* (Statistical Report 172, February 1, 1985), table 1; Hawaii State Data Center, provisional intercensal and postcensal estimates, 1981-1990; U.S. Bureau of the Census, Release CB91-42 (February 1991).

TABLE 6

RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1990

Date	Resident population 1/		De facto population 3/		De facto-resident ratio
	Total	Temporarily absent 2/	Total	Visitors present 2/	
1970: April 1	769,913	10,300	796,500	36,900	1.035
July 1	771,600	10,000	798,600	36,900	1.035
1971: July 1	801,600	9,400	833,100	40,900	1.039
1972: July 1	828,300	8,600	869,800	50,100	1.050
1973: July 1	851,600	9,800	901,300	59,600	1.058
1974: July 1	868,000	7,800	923,700	63,500	1.064
1975: July 1	886,200	9,000	943,500	66,300	1.065
1976: July 1	904,200	9,400	970,300	75,500	1.073
1977: July 1	918,300	9,000	992,300	83,000	1.081
1978: July 1	931,600	9,300	1,014,300	92,000	1.089
1979: July 1	953,300	9,300	1,042,700	98,700	1.094
1980: April 1	964,691	9,600	1,052,700	97,600	1.091
July 1	968,500	9,600	1,055,400	96,500	1.090
1981: July 1	978,200	11,600	1,062,600	96,000	1.086
1982: July 1	994,000	14,500	1,084,800	105,300	1.091
1983: July 1	1,013,400	11,500	1,110,000	108,000	1.095
1984: July 1	1,029,100	16,100	1,131,700	118,700	1.100
1985: July 1	1,041,900	18,600	1,140,000	116,700	1.094
1986: July 1	1,054,000	17,200	1,169,600	132,900	1.110
1987: July 1	1,070,800	15,700	1,189,300	134,300	1.111
1988: July 1	1,085,500	20,800	1,206,100	141,400	1.111
1989: July 1	1,097,800	18,700	1,248,800	169,700	1.138
1990: April 1	1,108,229	18,400	1,248,400	158,500	1.126
July 1	1,111,800	18,000	1,255,900	162,100	1.130

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

2/ 12-month moving averages.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

Source: Hawaii State Department of Planning and Economic Development, *Intercensal Population Estimates for Hawaii, 1940-1980* (Statistical Report 172, February 1, 1985), table 2; Hawaii State Data Center, provisional intercensal and postcensal estimates, 1981-1990; U.S. Bureau of the Census, Release CB91-42 (February 1991).

TABLE 7

RESIDENT POPULATION, BY COUNTIES: 1970 TO 1990

[Based on place of usual residence. Includes armed forces stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970: April 1	769,913	630,528	63,468	29,761	46,156
July 1	771,600	631,600	63,800	29,800	46,500
1971: July 1	801,600	654,600	67,000	30,900	49,100
1972: July 1	828,300	674,900	70,000	31,900	51,500
1973: July 1	851,600	691,400	73,900	32,900	53,400
1974: July 1	868,000	707,600	74,000	32,600	53,800
1975: July 1	886,200	718,600	77,400	33,400	56,800
1976: July 1	904,200	728,300	80,700	34,900	60,300
1977: July 1	918,300	737,000	82,800	35,500	63,000
1978: July 1	931,600	742,600	85,900	36,800	66,200
1979: July 1	953,300	756,000	89,400	38,100	69,700
1980: April 1	964,691	762,565	92,053	39,082	70,991
July 1	968,500	764,600	92,900	39,400	71,600
1981: July 1	978,200	767,400	96,300	40,500	74,100
1982: July 1	994,000	776,900	98,800	41,600	76,700
1983: July 1	1,013,400	790,700	100,600	42,500	79,600
1984: July 1	1,029,100	798,100	104,400	43,500	83,100
1985: July 1	1,041,900	806,100	106,100	44,600	85,000
1986: July 1	1,054,000	814,600	107,400	45,400	86,600
1987: July 1	1,070,800	823,800	110,300	46,900	89,800
1988: July 1	1,085,500	832,500	112,400	48,100	92,500
1989: July 1	1,097,800	834,900	116,600	49,700	96,600
1990: April 1	1,108,229	836,231	120,317	51,177	100,504
July 1	1,111,800	838,100	121,000	51,500	101,200

1/ Including Kalawao County (Kalaupapa Settlement).

Source: Hawaii State Department of Planning and Economic Development, *Intercensal Population Estimates for Hawaii, 1940-1980* (Statistical Report 172, February 1, 1985), table 3; Hawaii State Data Center, provisional intercensal and postcensal estimates, 1981-1990; U.S. Bureau of the Census, Release CB91-42 (February 1991).

TABLE 8

DE FACTO POPULATION, BY COUNTIES: 1970 TO 1990

[Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as averages for 12-month periods centered on estimate date]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970: April 1	796,500	650,700	65,700	31,800	48,400
July 1	798,600	650,200	66,600	32,300	49,400
1971: July 1	833,100	675,300	70,600	34,000	53,100
1972: July 1	869,800	702,200	74,500	35,800	57,200
1973: July 1	901,300	726,400	78,700	36,900	59,400
1974: July 1	923,700	746,500	79,500	36,800	60,900
1975: July 1	943,500	757,100	83,300	38,100	65,100
1976: July 1	970,300	772,900	86,800	40,100	70,500
1977: July 1	992,300	786,800	89,300	41,300	74,900
1978: July 1	1,014,300	797,200	93,400	43,600	80,100
1979: July 1	1,042,700	816,000	96,700	45,200	84,800
1980: April 1	1,052,700	822,000	98,700	46,100	85,900
July 1	1,055,400	823,400	99,300	46,400	86,400
1981: July 1	1,062,600	824,500	101,800	47,300	88,900
1982: July 1	1,084,800	838,400	104,300	48,200	93,900
1983: July 1	1,110,000	847,900	108,400	50,200	103,500
1984: July 1	1,131,700	852,700	110,500	54,000	114,600
1985: July 1	1,140,000	856,600	112,700	55,400	115,200
1986: July 1	1,169,600	875,100	115,700	59,500	119,300
1987: July 1	1,189,300	886,300	118,900	61,800	122,300
1988: July 1	1,206,100	896,700	121,200	63,800	124,500
1989: July 1	1,248,800	909,500	132,300	68,000	139,000
1990: April 1	1,248,400	908,000	135,100	68,000	137,300
July 1	1,255,900	911,900	136,000	68,800	139,100

1/ Including Kalawao County (Kalaupapa Settlement).

Source: Hawaii State Department of Planning and Economic Development, *Intercensal Population Estimates for Hawaii, 1940 1980* (Statistical Report 172, February 1, 1985), table 10; Hawaii State Data Center, provisional intercensal and postcensal estimates, 1981-1990.

TABLE 9

LAND AREA AND DE FACTO POPULATION DENSITY, BY COUNTIES AND ISLANDS: 1990

County and Island	Land area		De facto population density	
	Square km.	Square miles	Per square km.	Per square mile
State total	16,641.2	6,425.2	75.0	194.3
Counties:				
Hawaii	10,448.5	4,034.2	12.9	33.5
Maui	3,008.5	1,161.6	45.6	118.1
Kalawao	34.4	13.3	3.7	9.6
Honolulu	1,544.4	596.3	587.9	1,522.8
Kauai	1,605.3	619.8	42.3	109.7
Islands:				
Hawaii	10,448.5	4,034.2	12.9	33.5
Maui	1,887.1	728.6	67.3	174.3
Kahoolawe	116.5	45.0	0	0
Lanai	363.6	140.4	7.2	18.7
Molokai	675.7	260.9	11.4	29.4
Oahu 1/	1,544.4	596.3	587.9	1,522.8
Kauai	1,422.9	549.4	47.6	123.3
Niihau 2/	182.3	70.4	1.2	3.2

1/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll except Midway (7.0 sq. km., 2.7 sq. mi., 24 inhabitants).

2/ Includes Kaula (1.0 sq. km., 0.4 sq. mi.) and Lehua (1.0 sq. km., 0.4 sq. mi.), both uninhabited.

Source: Area from *Data Book 1990*, table 130; population from present report, table 4; density computed.

TABLE 10

RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1970, 1980, AND 1990

County and district	April 1, 1970	April 1, 1980	April 1, 1990	Percent change 1970 to 1980	Percent change 1980 to 1990
State total	769,913	964,691	1,108,229	25.3	14.9
Hawaii County	63,468	92,053	120,317	45.0	30.7
Puna	5,154	11,751	20,781	128.0	76.8
South Hilo	33,915	42,278	44,639	24.7	5.6
North Hilo	1,881	1,679	1,541	-10.7	-8.2
Hamakua	4,648	5,128	5,545	10.3	8.1
North Kohala	3,326	3,249	4,291	-2.3	32.1
South Kohala	2,310	4,607	9,140	99.4	98.4
North Kona	4,832	13,748	22,284	184.5	62.1
South Kona	4,004	5,914	7,658	47.7	29.5
Ka'u	3,398	3,699	4,438	8.9	20.0
Maui County 1/	46,156	70,991	100,504	53.8	41.6
Hana	969	1,423	1,895	46.9	33.2
Makawao	9,979	19,005	29,207	90.4	53.7
Wailuku	22,219	32,111	45,685	44.5	42.3
Lahaina	5,524	10,284	14,574	86.2	41.7
Lanai	2,204	2,119	2,426	-3.9	14.5
Molokai	5,089	5,905	6,587	16.0	11.5
Kalawao	172	144	130	-16.3	-9.7
City & Co. of Honolulu	630,528	762,565	836,231	20.9	9.7
Honolulu	324,871	365,048	377,059	12.4	3.3
Koolaupoko	92,219	109,373	117,694	18.6	7.6
Koolauloa	10,562	14,195	18,443	34.9	29.9
Waialua	9,171	9,849	11,549	7.4	17.3
Wahiawa 2/	37,329	41,562	43,886	11.3	5.6
Waianae	24,077	31,487	37,411	30.8	18.8
Ewa 2/	132,299	191,051	230,189	44.4	20.5
Kauai County	29,761	39,082	51,177	31.3	30.9
Hanalei	1,182	2,668	4,631	125.7	73.6
Kawaihau	7,393	10,497	15,627	42.0	48.9
Lihue	6,766	8,590	10,663	27.0	24.1
Koloa	6,851	8,734	11,368	27.5	30.2
Waimea	7,569	8,593	8,888	13.5	3.4

1/ Including Kalawao County.
2/ 1980 boundaries.

Source: U.S. Bureau of the Census, *1980 Census of Population, Number of Inhabitants, Hawaii*, PC80-1-A13 (October 1981), table 4 and 1990 census printouts transmitted February 21, 1991.

TABLE 11

RESIDENT POPULATION OF ISLANDS AND CENSUS DESIGNATED PLACES (CDPs): 1990

[This table presents data for the 123 "census designated places" defined by the Hawaii State Department of Business, Economic Development & Tourism, in cooperation with the Bureau of the Census, for the 1990 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political]

Island and place	Resident population	Island and place	Resident population
Hawaii	120,317	Hawaii (con.):	
Captain Cook	2,595	Waimea	5,972
Halaula	496	Wainaku	1,243
Hawaiian Beaches	2,846		
Hawaiian Ocean View	969	Maui	91,361
Hawaiian Paradise Park	3,389	Haiku-Pauwela	4,509
Hawi	924	Haliimaile	841
Hilo	37,808	Hana	683
Holualoa	3,834	Kaanapali	579
Honalo	1,926	Kahului	16,889
Honaunau-Napoopoo	2,373	Kapalua	408
Honokaa	2,186	Kihei	11,107
Honomu	532	Lahaina	9,073
Kahaluu-Keauhou	1,990	Maalaea	443
Kailua	9,126	Makawao	5,405
Kalaoa	4,490	Napili-Honokowai	4,332
Kapaau	1,083	Paia	2,091
Keaau	1,584	Pukalani	5,879
Kealakekua	1,453	Waihee-Waiehu	4,004
Kukuihaele	316	Waikapu	729
Kurtistown	910	Wailea-Makena	3,799
Laupahoehoe	508	Wailuku	10,688
Mountain View	3,075		
Naalehu	1,027	Kahoolawe	-
Paauilo	620		
Pahala	1,520	Lanai	2,426
Pahoa	1,027	Lanai City	2,400
Papaikou	1,634		
Paukaa	495	Molokai	6,717
Pepeekeo	1,813	Kaunakakai	2,658
Puako	397	Kualapuu	1,661
Volcano	1,516	Maunaloa	405
Waikoloa Village	2,248		

Continued on next page.

RESIDENT POPULATION OF ISLANDS AND CENSUS DESIGNATED PLACES (CDPs): 1990 - (Con.)

Island and place	Resident population	Island and place	Resident population
Oahu 1/	836,231	Oahu (con.):	
Ahuimanu	8,387	Waianae	8,758
Aiea	8,906	Waikane	717
Barbers Point Housing	2,218	Waimalu	29,967
Ewa Beach	14,315	Waimanalo	3,508
Ewa Gentry	1,992	Waimanalo Beach	4,185
Ewa Villages	3,780	Waipahu	31,435
Halawa	13,408	Waipio	11,812
Haleiwa	2,442	Waipio Acres	5,304
Hauula	3,479	Wheeler AFB	2,600
Heeia	5,010	Whitmore Village	3,373
Hickam Housing	6,553		
Honolulu 2/	377,059	Kauai	50,947
Iroquois Point	4,188	Anahola	1,181
Kaaawa	1,138	Eleele	1,489
Kahaluu	3,068	Hanalei	461
Kahuku	2,063	Hanamaulu	3,611
Kailua	36,818	Hanapepe	1,395
Kaneohe	35,448	Kalaheo	3,592
Kawela Bay	366	Kalihiwai	435
Laie	5,577	Kapaa	8,149
Maili	6,059	Kaumakani	803
Makaha	7,990	Kekaha	3,506
Makaha Valley	1,012	Kilauea	1,685
Makakilo City	9,828	Koloa	1,791
Maunawili	4,847	Lawai	1,787
Mililani Town	29,359	Lihue	5,536
Mokapu	11,662	Omao	1,142
Mokuleia	1,776	Pakala Village	565
Nanakuli	9,575	Poipu	975
Pearl City	30,993	Princeville	1,244
Punaluu	672	Puhi	1,210
Pupukea	4,111	Wailua	2,018
Schofield Barracks	19,597	Wailua Homesteads	3,870
Village Park	7,407	Waimea	1,840
Wahiawa	17,386		
Waialua	3,943	Niihau, Lehua and Kaula	230

1/ Includes the Northwestern Hawaiian Islands, except Midway. This is the area legally described as the City and County of Honolulu.

2/ Honolulu CDP is coterminous with Honolulu Census County Division and also Honolulu District. It extends from Red Hill to Makapuu Point, south and west of the crest of the Koolau Mts. Like all other CDPs on Oahu, it is part of a single municipality, the City and County of Honolulu. The population count has been corrected from the published figure.

Source: U.S. Bureau of the Census, printouts dated February 21, 1991.

TABLE 12

SELECTED POPULATION CHARACTERISTICS: 1980 AND 1990

Subject	1980	1990	Change	
			Number	Percent
Total population	964,691	1,108,229	143,538	14.9
Sex:				
Male	494,683	563,891	69,208	14.0
Female	470,008	544,338	74,330	15.8
Males per 100 females	105.2	103.6	-1.6	-1.5
Age:				
Under 5 years	77,848	83,223	5,375	6.9
5 to 17 years	197,735	196,903	-832	-0.4
18 to 20 years	58,547	48,549	-9,998	-17.1
21 to 24 years	83,773	72,636	-11,137	-13.3
25 to 44 years	291,017	379,035	88,018	30.2
45 to 54 years	94,444	108,775	14,331	15.2
55 to 59 years	47,383	45,375	-2,008	-4.2
60 to 64 years	37,794	48,728	10,934	28.9
65 to 74 years	49,375	78,653	29,278	59.3
75 to 84 years	21,214	35,955	14,741	69.5
85 years and over	5,561	10,397	4,836	87.0
Median age	28.3	32.6	4.3	15.2
Under 18 years	275,583	280,126	4,543	1.6
Percent of total population	28.6	25.3	(X)	(X)
65 years and over	76,150	125,005	48,855	64.2
Percent of total population	7.9	11.3	(X)	(X)
Households by type:				
Total households	294,052	356,267	62,215	21.2
Family households (families)	226,035	263,456	37,421	16.6
Married-couple families	185,698	210,468	24,770	13.3
Percent of total households	63.2	59.1	(X)	(X)
Other family, male householder	10,915	15,579	4,664	42.7
Other family, female householder	29,422	37,409	7,987	27.1
Nonfamily households	68,017	92,811	24,794	36.5
Percent of total households	23.1	26.1	(X)	(X)
Householder living alone	(NA)	68,985	(NA)	(NA)
Householder 65 years and over	(NA)	20,933	(NA)	(NA)
Persons living in households	925,092	1,070,597	145,505	15.7
Persons per household	3.15	3.01	-0.14	-4.4
Group quarters:				
Persons living in group quarters	39,599	37,632	-1,967	-5.0
Institutionalized persons	5,785	7,805	2,020	34.9
Other persons in group quarters	33,814	29,827	-3,987	-11.8

NA Not available.
X Not applicable.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), and Release CB91-133 (April 22, 1991).

TABLE 13

RACE AND HISPANIC ORIGIN: 1980 AND 1990

[Persons of mixed race classified by self-identification or by race of mother]

Race or Hispanic origin	1980 1/	1990	Percent distribution		Percent change
			1980	1990	
All races	964,691	1,108,229	100.0	100.0	14.9
White	318,770	369,616	33.0	33.4	16.0
Black	17,364	27,195	1.8	2.5	56.6
American Indian, Eskimo, or Aleut	2,768	5,099	0.3	0.5	84.2
Asian or Pacific Islander	583,252	685,236	60.5	61.8	17.5
Chinese	56,285	68,804	5.8	6.2	22.2
Filipino	133,940	168,682	13.9	15.2	25.9
Japanese	239,748	247,486	24.9	22.3	3.2
Korean	17,962	24,454	1.9	2.2	36.1
Vietnamese	3,463	5,468	0.4	0.5	57.9
Hawaiian	115,500	138,742	12.0	12.5	20.1
Samoan	14,073	15,034	1.5	1.4	6.8
Other Asian or Pacific 2/	2,281	16,566	0.2	1.5	-16.0
Other race	42,537	21,083	4.4	1.9	
Hispanic origin 3/	71,263	81,390	7.4	7.3	14.2

1/ Based on 100-percent tabulations. The Asian or Pacific Islander category includes only groups listed separately in the race question. Write-in responses for groups such as Thai, Laotian, and Tongan were not included in 100-percent totals for the Asian or Pacific Islander population and were instead included with the "other race" group.

2/ 1980 figure is limited to Asian Indians and Guamanians.

3/ Persons of Hispanic origin can be of any race.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), tables 15 and 16; U.S. Bureau of the Census, Release CB91-42 (February 1991) and Summary Tape File 1A.

TABLE 14

HOUSEHOLDS, POPULATION IN HOUSEHOLDS, AND POPULATION PER HOUSEHOLD, BY COUNTIES AND ISLANDS: 1980 AND 1990

County and island	Households		Population in households		Population per household	
	1980	1990	1980	1990	1980	1990
State total	294,052	356,267	925,092	1,070,597	3.15	3.01
Counties:						
Hawaii	29,237	41,461	90,436	118,632	3.09	2.86
Maui	22,510	33,145	70,008	99,019	3.11	2.99
Kalawao	71	62	104	85	1.46	1.37
Honolulu	230,214	265,304	725,865	802,338	3.15	3.02
Kauai	12,020	16,295	38,679	50,523	3.22	3.10
Islands:						
Hawaii	29,237	41,461	90,436	118,632	3.09	2.86
Maui	20,162	30,272	62,134	90,031	3.08	2.97
Lanai	650	847	1,986	2,426	3.06	2.86
Molokai	1,769	2,088	5,992	6,647	3.39	3.18
Oahu	230,214	265,304	725,865	802,338	3.15	3.02
Kauai	11,979	16,253	38,453	50,293	3.21	3.09
Niihau	41	42	226	230	5.51	5.48

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21 and 47, and *1980 Census of Population and Housing, Census Tracts, Hawaii, Selected Areas*, PHC80-2-13 (June 1983), table P-1; U.S. Bureau of the Census, printouts transmitted February 21, 1991.

TABLE 15

COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1980 AND 1980 TO 1990

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1970 TO 1980 1/						
Net change	+194,778	+1,911	+2,165	+190,702	+19,070	100.0
Natural increase	118,654	-447	36,233	82,868	8,287	43.5
Live births	161,831	-	37,234	124,597	12,460	...
Deaths	43,177	447	1,001	41,729	4,173	...
Net mil. separations 2/	-	-1,815	-	+1,815	+181	1.0
Net migration 3/	+76,124	+4,173	-34,068	+106,019	+10,602	55.6
1980 TO 1990 4/						
Net change	+143,538	-1,723	-4,088	+149,349	+14,935	100.0
Natural increase	112,148	-604	34,007	78,745	7,875	52.7
Live births	168,523	-	34,847	133,676	13,368	...
Deaths	56,375	604	840	54,931	5,493	...
Net mil. separations 2/	-	+734	-	-734	-73	-0.5
Net migration 3/	+31,390	-1,853	-38,095	+71,338	+7,134	47.8

1/ April 1, 1970 to March 31, 1980.

2/ Separations less ind[illegible]ons for armed forces.

3/ Includes error of [illegible]are.

4/ April 1, 1980 t[illegible]une 30, 1990.

Source: Estimated by Hawaii State Data Center from census counts, DBED surveys of military population, special tabulations by the Hawaii State Department of Health, and data from the Federal-State Cooperative Program for Population Estimates.

TABLE 16

COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS, BY ISLANDS: 1980 TO 1990

Component and island	All persons	Armed forces	Civilians		
			Total	Military dependent	Other 1/
NET CHANGE					
State total	143,538	-1,723	145,261	-4,088	149,349
Hawaii	28,264	-19	28,283	-15	28,298
Maui	28,538	1	28,537	-24	28,561
Lanai	307	-	307	-	307
Molokai	668	-	668	-	668
Oahu	73,666	-1,703	75,369	-4,031	79,400
Kauai	12,091	-2	12,093	-18	12,111
Niihau	4	-	4	-	4
LIVE BIRTHS					
State total	168,523	-	168,523	34,847	133,676
Hawaii	17,408	-	17,408	276	17,132
Maui	12,673	-	12,673	158	12,515
Lanai	242	-	242	4	238
Molokai	1,215	-	1,215	25	1,190
Oahu	128,990	-	128,990	33,989	95,001
Kauai	7,394	-	7,394	310	7,084
Niihau	21	-	21	-	21
Island not reported	580	-	580	85	495
DEATHS					
State total	56,375	604	55,771	840	54,931
Hawaii	6,973	23	6,950	2	6,948
Maui	4,231	3	4,228	-	4,228
Lanai	182	-	182	-	182
Molokai	483	1	482	-	482
Oahu	41,418	566	40,852	836	40,016
Kauai	2,853	9	2,844	2	2,842
Niihau	9	-	9	-	9
Island not reported	226	2	224	-	224

Continued on next page.

COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS, BY ISLANDS: 1980 TO 1990 (Con.)

Component and island	All persons	Armed forces	Civilians		
			Total	Military dependent	Other 1/
NET MIGRATION 2/					
State total	31,390	-1,119	32,509	-38,095	70,604
Hawaii	17,829	4	17,825	-289	18,114
Maui	20,096	4	20,092	-182	20,274
Lanai	247	-	247	-4	251
Molokai	-64	1	-65	-25	-40
Oahu	-13,906	-1,137	-12,769	-37,184	24,415
Kauai	7,550	7	7,543	-326	7,869
Niihau	-8	-	-8	-	-8
Island not reported	-354	2	-356	-85	-271

1/ Includes data for persons of unspecified military status (16,510 births, 579 deaths).

2/ Includes net movement into or out of armed forces.

Source: Estimated by Hawaii State Data Center from 1980 and 1990 census counts, DBED surveys of military population, and special tabulations of births and deaths by the Hawaii State Department of Health.

TABLE 17

SELECTED HOUSING CHARACTERISTICS: 1980 AND 1990

Subject	1980 1/	1990 2/	Change	
			Number	Percent
Total housing units	332,213	389,810	57,597	17.3
Occupancy and tenure:				
Occupied housing units	294,052	356,267	62,215	21.2
Owner occupied	151,954	191,911	39,957	26.3
Percent owner occupied	51.7	53.9	(X)	(X)
Renter occupied	142,098	164,356	22,258	15.7
Vacant housing units	38,161	33,543	-4,618	-12.1
For seasonal recreational, or occasional use	(NA)	12,806	(NA)	(NA)
Homeowner vacancy rate (percent)	1.4	0.8	(X)	(X)
Rental vacancy rate (percent)	10.3	5.4	(X)	(X)
Persons per owner-occupied unit	3.41	3.19	-.22	-6.5
Persons per renter-occupied unit	2.87	2.78	-.09	-3.1
Units with over 1 person per room	44,905	56,708	11,803	26.3
Units in structure:				
1-unit, detached	158,174	202,990	44,816	28.3
1-unit, attached	13,562	34,041	20,479	151.0
2 to 4 units	33,386	24,182	-9,254	-27.6
5 to 9 units	22,874	22,258	-618	-2.7
10 or more units	103,791	100,238	-3,553	-3.4
Mobile home, trailer, other	418	6,101	5,683	1,359.6
Value:				
Specified owner-occupied units	109,334	144,431	35,097	32.1
Less than $50,000	9,186	3,339	-5,847	-63.7
$50,000 to $99,999	31,651	13,111	-18,540	-58.6
$100,000 to $149,999	35,660	16,706	-18,954	-53.2
$150,000 to $199,999	18,699	21,119	2,420	12.9
$200,000 to $299,999	14,138	39,679	76,018	537.7
$300,000 or more		50,477		
Median (dollars)	118,10[illegible]	245,300	127,200	107.7
Contract rent:				
Specified renter-occupied units paying cash rent	122,095	139,266	17,171	14.1
Less than $250	52,504	15,119	-37,385	-71.2
$250 to $499	57,961	36,779	-20,912	-36.5
$500 to $749	11,630	43,763	75,738	651.2
$750 to $999		25,164		
$1,000 or more		18,441		
Median (dollars)	271	599	328	121.0

NA Not available.

X Not applicable.

1/ Data for 1980 exclude 2,022 vacant seasonal and migratory units.

2/ Because many of the State's 19,238 condominium units intended for transient occupancy were omitted from the 1990 count, data for total housing stock, vacant units, and units in structure in 1990 are not comparable to the corresponding figures for 1980.

Source: U.S. Bureau of the Census, *1980 Census of Housing, General Housing Characteristics, Hawaii*, HC80-1-A13 (July 1982) and *Detailed Housing Characteristics, Hawaii*, HC80-1-B13 (May 1983); Release CB91-133 (April 22, 1991).

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